

ANIMAL SCIENCE 5326 ANIMAL REPRODUCTION

Instructor: Scott Ericsson

Spring 2015

Office: RAS 110

Time: Web-delivered

Office Hours: (MW) 1:00-4:00 pm

Meeting Place: Web-delivered

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This web-delivered course will be accessible through Blackboard. Class correspondence will be through Blackboard or student's SRSU email account.

Course Description:

This course provides the student with a solid understanding of the anatomical, cellular and physiological mechanisms that control the endocrine and reproductive systems of humans, domestic animals and wildlife.

Course Objectives:

By the end of the course, you will be able to understand:

- The organization and function of the male and female reproductive tract.
- Hormonal regulation of reproduction.
- The onset of puberty.
- The estrous cycle – terminology and basic concepts.
- The follicular phase of the estrous cycle.
- The luteal phase of the estrous cycle.
- Spermatogenesis and oogenesis.
- Reproductive behavior.
- Gamete transport and fertilization.
- Early embryogenesis and maternal recognition of pregnancy.
- Parturition.

Program Learning Objectives:

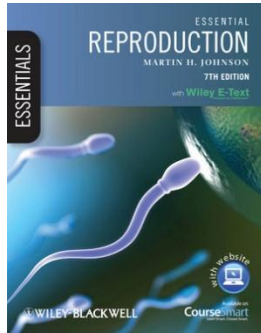
M.S (non-thesis) in Animal Science. The graduating student will demonstrate that he/she is able to:

1. Apply statistical concepts and procedures to animal science data.
2. Evaluate literature and references as they apply to animal science field.
3. Demonstrate their knowledge of the fundamentals and advanced concepts of animal science.

M.S. (thesis) in Animal Science. The graduating student will demonstrate that he/she is able to:

1. Apply statistical concepts and procedures to animal science or natural resource data.
2. Evaluate literature and references to substantiate an applied research project.
3. Examine, select, and utilize appropriate resources, materials, and data collection instruments to implement research projects.
4. Justify and defend the research questions and design.

Textbook: Required. The below item is necessary to achieve success in this class.



Essential Reproduction
 Includes Wiley E-Text, 7th Edition
 Martin H. Johnson
 ISBN 978-1-4443-3575-0
 March 2013, Wiley-Blackwell
 Paperback, 392 pages
<http://www.wiley.com>
 Amazon: <http://www.amazon.com>
 Barnes & Noble: <http://www.barnesandnoble.com>

Exams and Grading:

There will be six exams. Exams will cover readings, PowerPoint presentations and study guide materials. Each exam has a value of 100 points (600 points total). There will be 6 assignments. Each assignment is worth 20 points (120 points total). Grade assignment (average of all exams and assignments): A =100-90; B = 89-80; C= 79-70; D = 69-60 and F= < 60.

Exam and Assignment Schedule:

- Exam and Assignment
- 1 – Friday, February 6.
 - 2 – Friday, February 20.
 - 3 – Thursday, March 12.
 - 4 – Friday, March 27
 - 5 – Friday, April 17.
 - 6 – Wednesday, May 6.

6 Week Calendar (subject to change)

Week Presentation Order of Topics:

Readings and Assignments:

- | | | |
|-----|---|---|
| 1-3 | Chapter 1. What is reproduction
Chapter 2. Sex
Chapter 3. Sexual maturation
Exam 1 | <ul style="list-style-type: none"> • Syllabus • Textbook - Chapters 1-3 • Lecture slides – Chapters 1- |
|-----|---|---|

4-5	Chapter 5. Sexual selection Chapter 6. Making sperm Exam 2	<ul style="list-style-type: none"> • Assignment 1 • Textbook - Chapters 5-6 • Lecture slides – Chapters 5-6 • Assignment 2
6-9	Chapter 7. Men Chapter 8. Making eggs Spring Break Chapter 9. Women Exam 3	<ul style="list-style-type: none"> • Textbook - Chapters 7-9 • Lecture slides – Chapters 7-9 • Assignment 3
10-11	Chapter 10. Sperm and eggs Chapter 11. Fertilization Exam 4	<ul style="list-style-type: none"> • Textbook - Chapters 10-11 • Lecture slides – Chapters 10-11 • Assignments 4
12-13	Chapter 12. Initiating pregnancy Chapter 13. Supporting the embryo and fetus Exam 5	<ul style="list-style-type: none"> • Textbook - Chapters 12-13 • Lecture slides – Chapters 12-13 • Assignment 5
14-15	Chapter 14. Growing the fetus Chapter 17. Giving birth Exam 6	<ul style="list-style-type: none"> • Textbook - Chapters 14 and 17 • Lecture slides – Chapters 14 and 17 • Assignment 6

It is Sul Ross State University policy to provide reasonable accommodation to students with disabilities. If you would like to request such accommodation because of a physical, mental, or learning disability, please contact the ADA Coordinator for Program Accessibility in Ferguson Hall 112 or call (432) 837-8203.